

RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

INDUSTRY CANADA RSS-210

Test Standard	FCC Part 15.239 and RSS-210 Issue 9
FCC ID	A4C-1000DA
ISED No.	10199A-1000DA
Trade name	Rand McNally
Product name	OverDryve™ 8Pro
Model No.	OD8
Test Result	Pass

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Hsinchu Lab)

The sample selected for test was production product and was provided by manufacturer.



Approved by:

Davis Tseng

Davis Tseng
Sr. Engineer

Reviewed by:

Zeus Chen

Zeus Chen
Supervisor

Revision History

Rev.	Issue Date	Revisions	Revised By
00	January 25, 2017	Initial Issue	Angel Cheng
01	March 27, 2017	1. Add Test Setup Photos in page 33, 34. 2. Revise section 1.3 Antenna Type and Antenna Category in page 5.	Doris Chu
02	March 30, 2017	1. Remove remark in page 4.	Angel Cheng
03	April 5, 2017	1. Revise section 4.2.2 & 4.2.3 in page 15. 2. Modify 20dB bandwidth and occupied bandwidth (99%) test data in page 16. 3. Revise section 4.3.2 in page 18.	Angel Cheng
04	April 12, 2017	1. Revise radiation (Below 1GHz) setup photo in page 30~32. 2. Remove conduction Data. 3. Revise section 1.1 power operation in page 4 and section 3.2 Test mode in page 11.	Angel Cheng

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APPENDIX 1 - PHOTOGRAPHS OF EUT		

1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	RM Acquisition, LLC 9855 Woods Drive Skokie, IL 60077 USA.
Equipment	OverDryve™ 8Pro
Model Name	OD8
Model Discrepancy	N/A
EUT Functions	IEEE 802.11 abgn+BT+GPS+FM
Received Date	Dec 22, 2016
Date of Test	Jan 07, 2017 ~ March 22, 2017
Output Power (dBuV/m)	Peak : 47.08 Average : 47.03
Power Operation	<input type="checkbox"/> Adapter Model: W12-010N3A I/P: 100-240V, 50/60Hz, 0.3A O/P: 5V, 2A <input type="checkbox"/> Host system <input checked="" type="checkbox"/> DC Type : <input type="checkbox"/> Battery <input checked="" type="checkbox"/> Car Charger <input type="checkbox"/> DC Power Supply

1.2 EUT CHANNEL INFORMATION

Frequency Range	88MHz to 108MHz
Modulation Type	FM

Remark:

Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 and RSS-GEN Table A1 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
<input type="checkbox"/> 1 MHz or less	1	Middle
<input type="checkbox"/> 1 MHz to 10 MHz	2	1 near top and 1 near bottom
<input checked="" type="checkbox"/> More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.3 ANTENNA INFORMATION

Antenna Category	<input type="checkbox"/> Integral: antenna permanently attached <input checked="" type="checkbox"/> External dedicated antennas <input type="checkbox"/> External Unique antenna connector
Antenna Type	<input type="checkbox"/> PIFA <input type="checkbox"/> PCB <input checked="" type="checkbox"/> Dipole <input type="checkbox"/> Coils

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 1.4003
RF output power, conducted	+/- 1.1372
Power density, conducted	+/- 1.4003
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683
3M Semi Anechoic Chamber / 40G~60G	+/- 1.8509
3M Semi Anechoic Chamber / 60G~75G	+/- 1.9869
3M Semi Anechoic Chamber / 75G~110G	+/- 2.9651
3M Semi Anechoic Chamber / 110G~170G	+/- 2.7807
3M Semi Anechoic Chamber / 170G~220G	+/- 3.6437
3M Semi Anechoic Chamber / 220G~325G	+/- 4.2982

Remark:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Jim Lian	
Radiation	Ed Chiang	
RF Conducted	Eric Lee	

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
Spectrum Analyzer	R&S	FSV 40	101073	08/01/2017	07/31/2017

3M 966 Chamber Test Site					
Equipment	Manufacturer	Model	S/N	Cal Due	Cal Due
Bi-log Antenna	TESEQ	CBL 6112D	35403	07/03/2016	07/02/2017
Double Ridged BroadBand Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	07/15/2016	07/14/2017
Double Ridged Guide Horn Antenna	ETS • LINDGREN	3117	00078733	11/17/2016	11/16/2017
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100221	04/27/2016	04/26/2017
Horn Antenna	COM-POWER	AH-840	03077	12/02/2016	12/01/2017
Loop Antenna	COM-POWER	AL-130	121060	05/24/2016	05/23/2017
Preamplifier	Agilent	8447D	2944A10052	07/13/2016	07/12/2017
Preamplifier	Agilent	8449B	3008A01916	07/13/2016	07/12/2017
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	04/13/2016	04/12/2017
Software	E3.815206a				

AC Conducted Emissions Test Site					
Equipment	Manufacturer	Model	S/N	Cal Date	Cal Due
EMI Test Receiver	R&S	ESCI	101201	08/20/2016	08/19/2017
LISN	Schwarzbeck	NNLK 8129	8129-286	08/19/2016	08/18/2017
LISN(EUT)	Schwarzbeck	NSLK 8127	8127-527	08/19/2016	08/18/2017
Pulse Limiter	R&S	ESH3Z2	C3010026-2	08/21/2016	08/22/2017
Software	EZ-EMC				

Remark: Each piece of equipment is scheduled for calibration once a year.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT


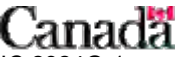
EUT Accessories Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
	N/A				

Support Equipment					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	Earphone	INTOPIC	JASS-288	N/A	N/A
2	Monitor	ASUS	PA248Q	G5LMQS071275	N/A

1.8 Test methodology and applied standards

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 15.239, RSS-210 Issue 9 and RSS-GEN Issue 4

1.9 Table of accreditations and listings

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1027) to perform FCC Part 15 measurements	 FCC MRA: TW1027
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	 IC 2324G-1 IC 2324G-2

2. TEST SUMMERY

FCC Standard Section	IC Standard Section	Report Section	Test Item	Result
15.203	-	1.2	Antenna Requirement	Pass
15.207(a)	RSS-GEN 8.8	4.1	AC Conducted Emission	Pass
-	-	4.2	20 dB Bandwidth	-
15.239(a)	RSS-210 B.9(a)	4.2	Occupied Bandwidth (99%)	Pass
15.239(b)(c)	RSS-210 B.9(b)(c)	4.3	Radiation Band Edge	Pass
15.239(b)(c)	RSS-210 B.9(b)(c)	4.3	Radiation Spurious Emission	Pass

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	FM 88MHz to 108MHz
Test Channel Frequencies	1.Lowest Channel : 88.1MHz 2.Middle Channel : 98.1MHz 3.Highest Channel : 107.9MHz

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

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3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Voltage/Hz	120V/60Hz
Test Mode	Mode 1:EUT power by host system via USB Cable
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Band edge, Emission for Unwanted and Fundamental
Voltage/Hz	120V/60Hz
Test Mode	Mode 1:EUT power by Battery via car charger
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4
Worst Position	<input type="checkbox"/> Placed in fixed position. <input checked="" type="checkbox"/> Placed in fixed position at X-Plane (E2-Plane) <input type="checkbox"/> Placed in fixed position at Y-Plane (E1-Plane) <input type="checkbox"/> Placed in fixed position at Z-Plane (H-Plane)
Worst Polarity	<input type="checkbox"/> Horizontal <input checked="" type="checkbox"/> Vertical

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Voltage/Hz	120V/60Hz
Test Mode	Mode 1:EUT power by Battery via car charger
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Remark:

1. The worst mode was record in this test report.
2. EUT pre-scanned in three axis ,X , Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case(X-Plane and Vertical) were recorded in this report.
3. For below 1G AC power line conducted emission and radiation emission were performed the EUT transmit at the Maximum bandwidth and Middle channel as worse case.
4. EUT Transmit only can by Battery to set. Therefore EUT used Battery mode for Radiated measurement above 1G and Conduction below 1G in test report.

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

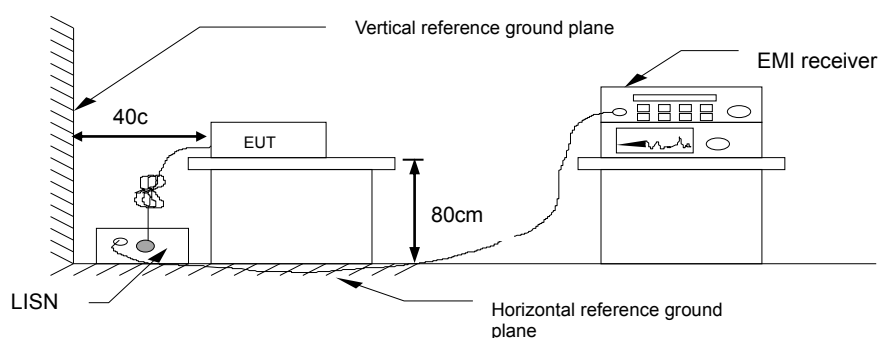
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

Pass.

Test Data

Not applicable, because EUT not connect to AC Main Source direct.

4.2 20DB BANDWIDTH AND OCCUPIED BANDWIDTH(99%)

4.2.1 Test Limit

According to §15.239(a)(2) and RSS-210 section B9 (a)

20 dB Bandwidth and Occupied Bandwidth(99%) :

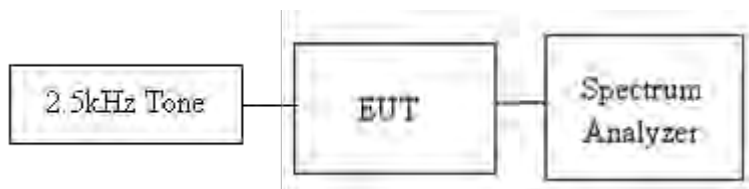
Limit	200kHz
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Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

4.2.2 Test Procedure

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. SA set RBW = 2kHz, VBW = 10kHz and Detector = Peak, to measurement 20 dB Bandwidth and 99% Bandwidth.
4. Measure and record the result of 20 dB Bandwidth and 99% Bandwidth. in the test report.

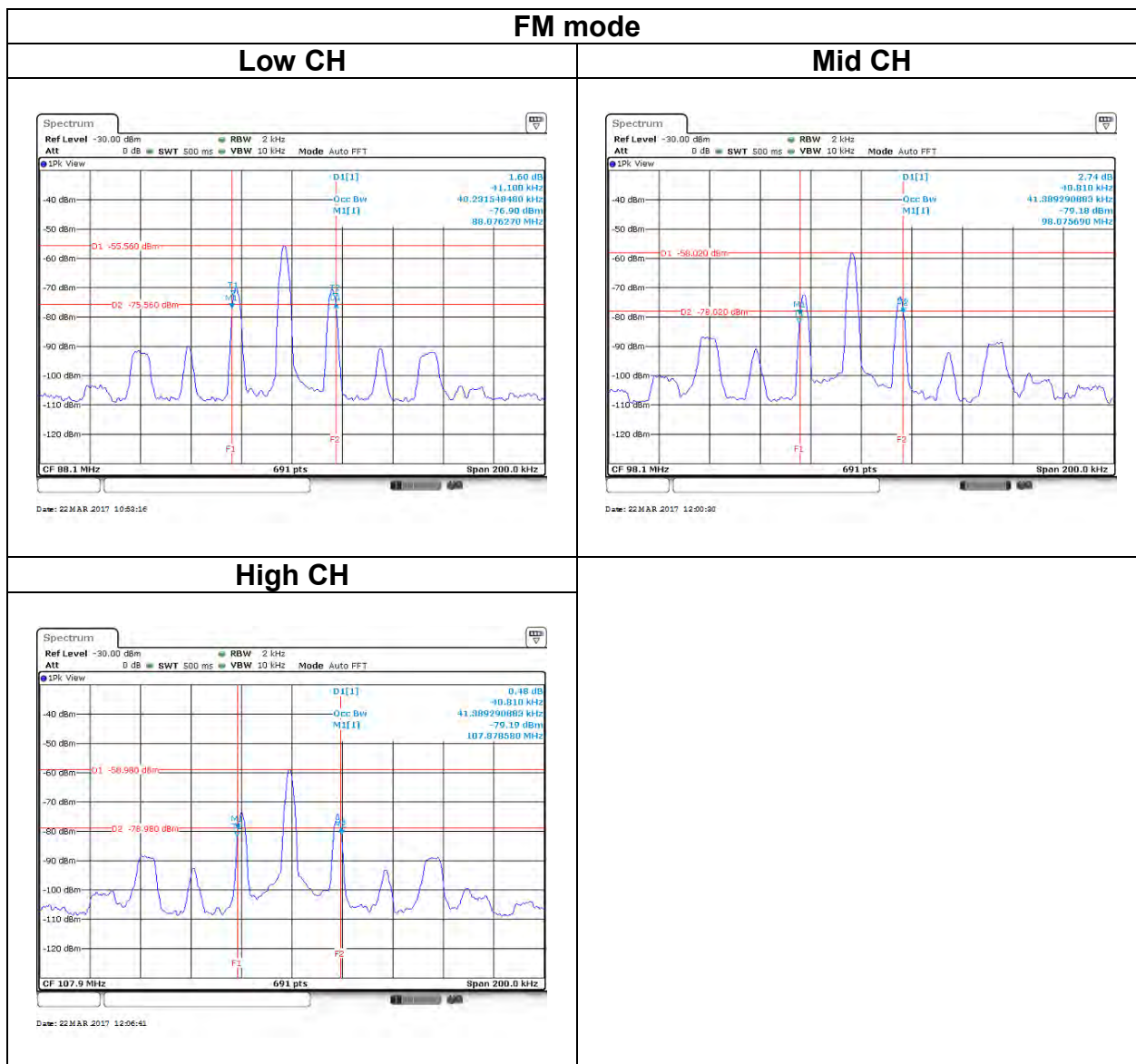
4.2.3 Test Setup



4.2.4 Test Result

Test mode: FM mode / 88-108 MHz				
Channel	Frequency (MHz)	OBW(99%) (kHz)	20dB BW (kHz)	OBW(99%) limit (kHz)
Low	88.1	40.2315	41.100	200
Mid	98.1	41.3892	40.810	
High	107.9	41.3892	40.810	

Test Data



4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.3.1 Test Limit

FCC according to §15.239(b)(c), §15.209 and §15.205.

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in §15.209

IC according to RSS-210 section B.9(b)(c), RSS-Gen, Section 8.9 and 8.10

The field strength of any emissions within the authorized bandwidth shall not exceed 250 $\mu\text{V/m}$ measured at 3 m with an average meter. Any type of modulation can be used.

The field strength of any emissions outside the 200 kHz authorized bandwidth or outside the band 88-108 MHz shall not exceed the general field strength limits specified in RSS-Gen.

FCC section 15.209 and RSS-Gen, Section 8.9 and 8.10 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

FCC section 15.239(b)(c) and RSS-210 Section B.9(b)(c) as below limit in table.

Fundamental :

Frequency(MHz)	Field Strength of Fundamental (dBuV/m)	
88-108	AVG	Peak
	47.96	67.96

Band Edge and Emission Outside of the frequency:

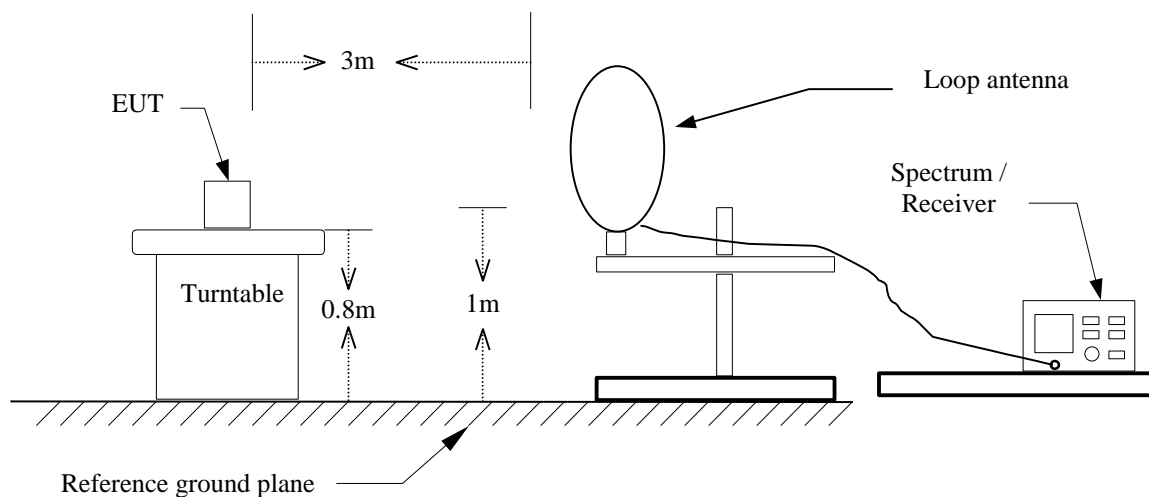
Frequency(MHz)	QP Limit (dBuV/m at 3M)
Below 88	40.0
Above 108	43.5

4.3.2 Test Procedure

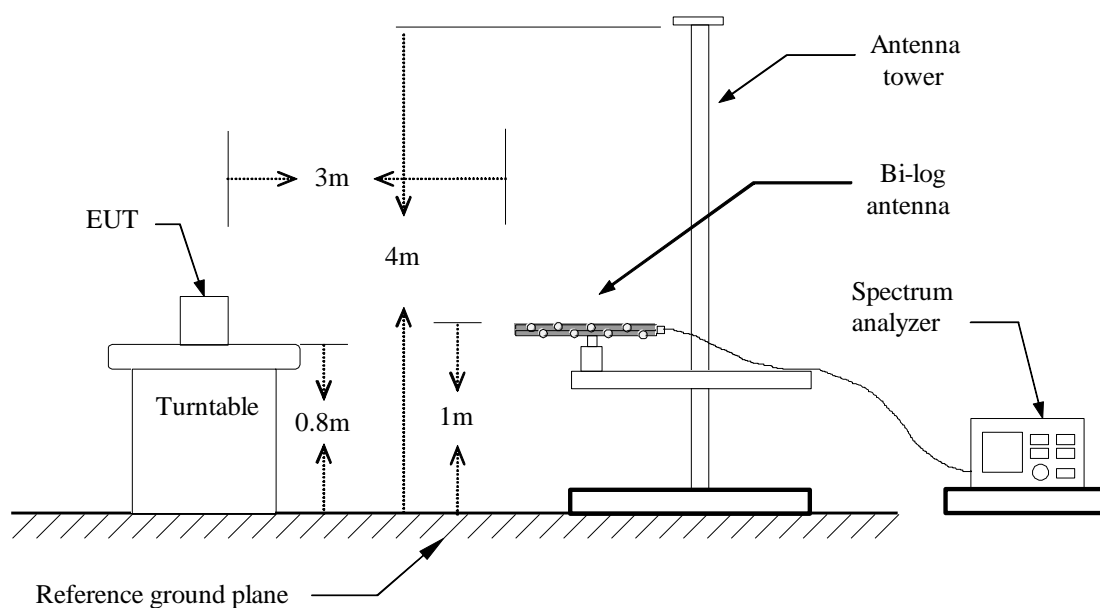
1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 30MHz to 1GHz set to the low, Mid and High channels with the EUT transmit.
4. The SA setting following :
 - (1) Below 1G : RBW = 100kHz, VBW \geq 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

4.3.3 Test Setup

9kHz ~ 30MHz



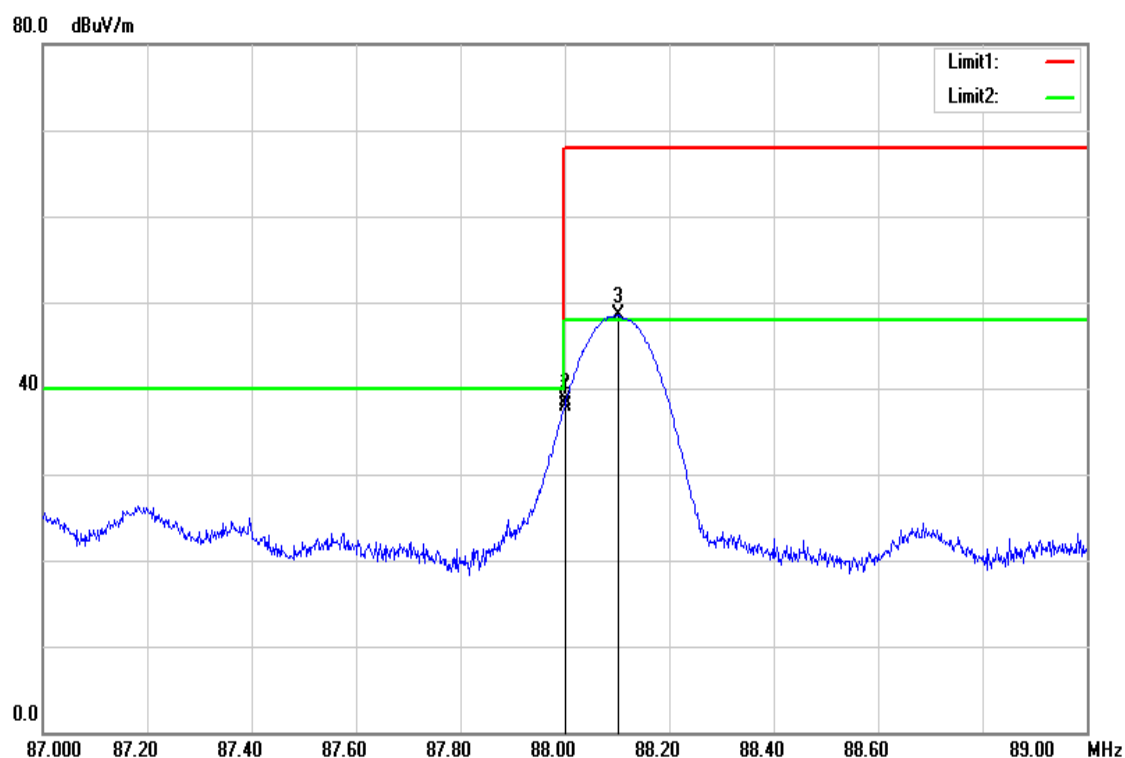
30MHz ~ 1GHz



4.3.4 Test Result

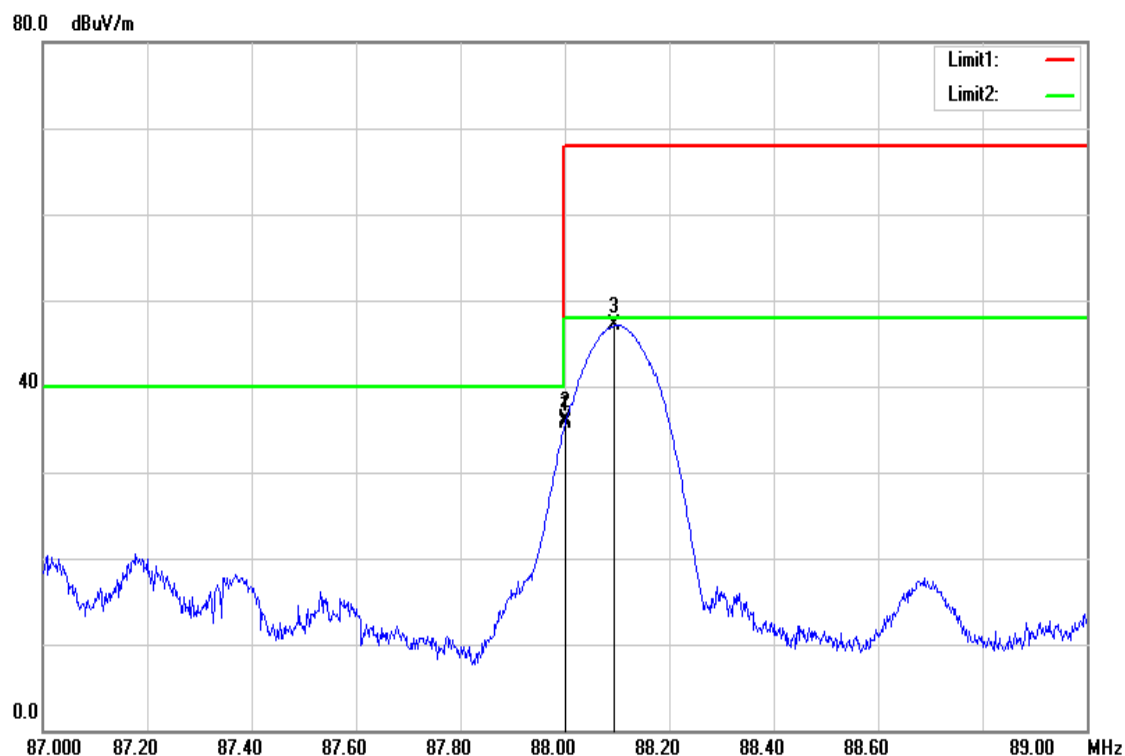
Band Edge Test Data

Test Mode:	FM Low CH	Temp/Hum	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Peak	Test Voltage:	120Vac / 60Hz



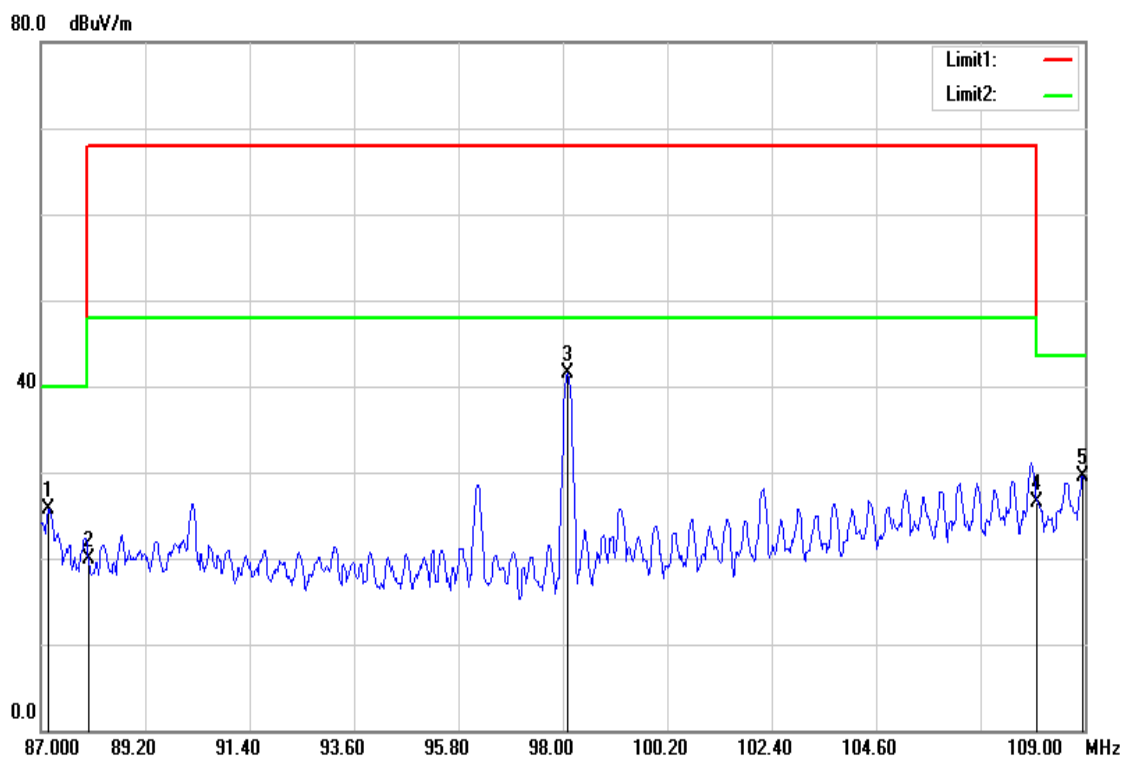
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
88.0000	59.42	-21.45	37.97	40.00	-2.03	Peak
88.0020	59.89	-21.45	38.44	67.96	-29.52	Peak
88.1020	69.88	-21.45	48.43	67.96	-19.53	Peak

Test Mode:	FM Low CH	Temp/Hum	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Average	Test Voltage:	120Vac / 60Hz



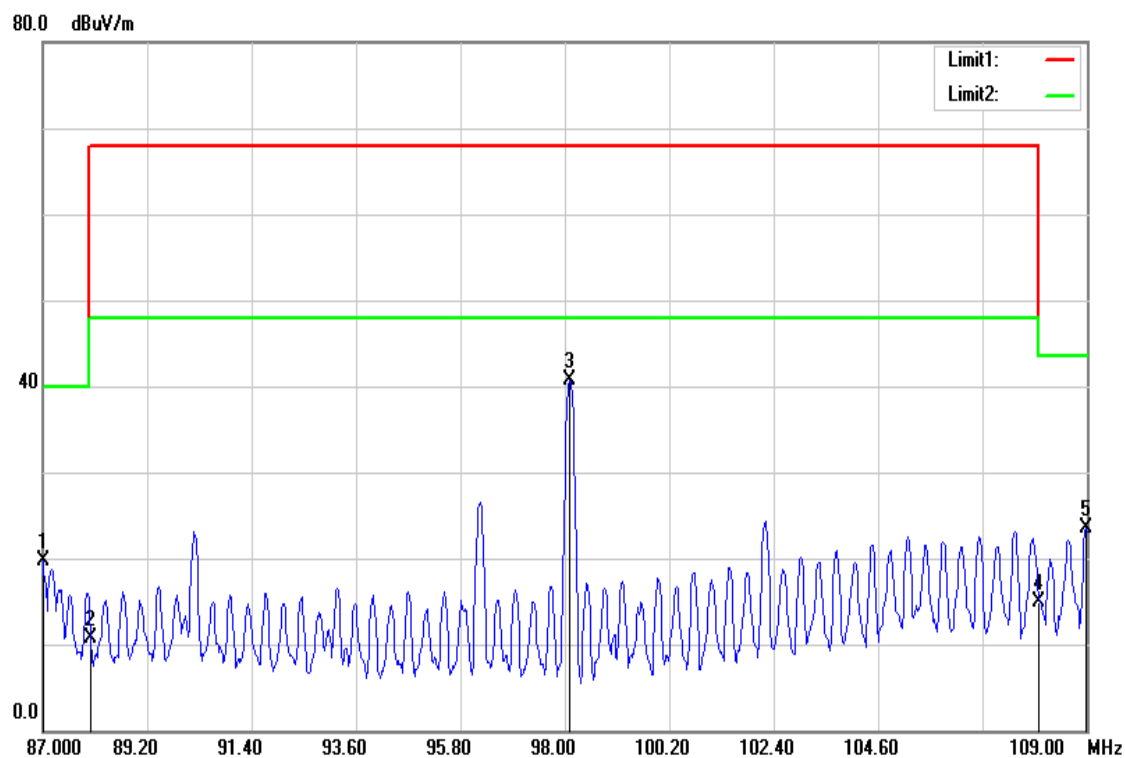
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
88.0000	57.06	-21.45	35.61	40.00	-4.39	AVG
88.0020	57.60	-21.45	36.15	47.96	-11.81	AVG
88.0940	68.53	-21.45	47.08	47.96	-0.88	AVG

Test Mode:	FM Mid CH	Temp/Hum	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Peak	Test Voltage:	120Vac / 60Hz



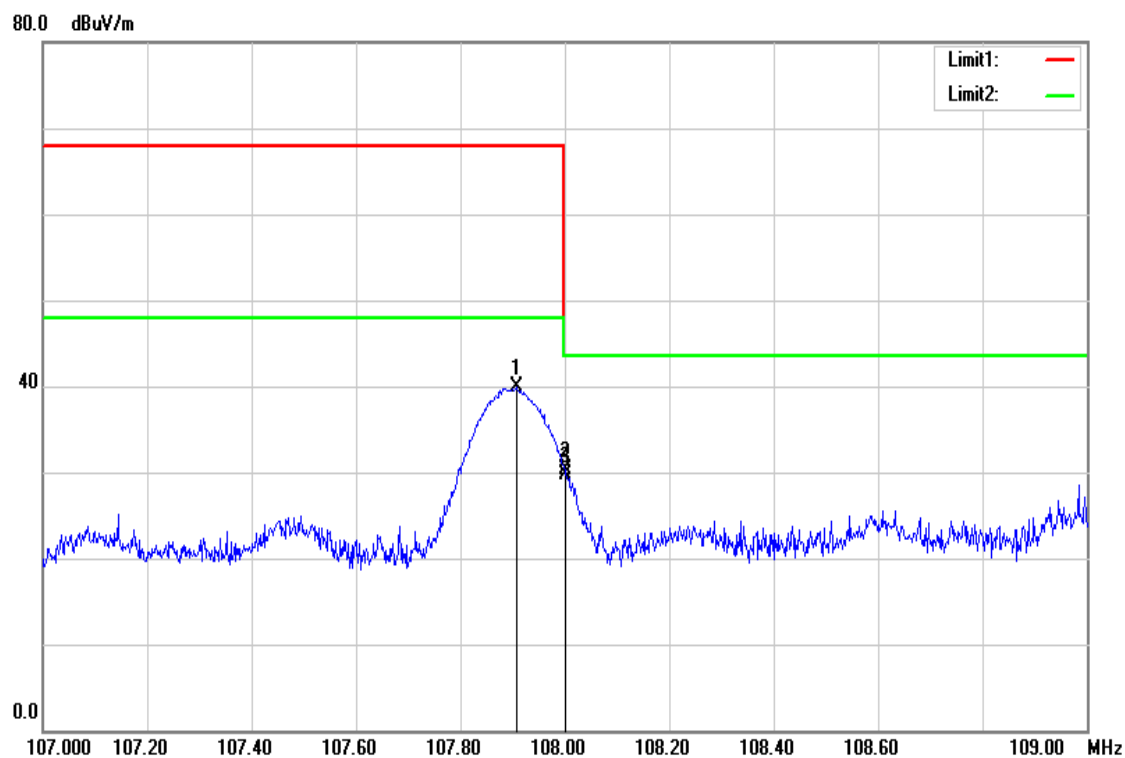
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
87.1540	47.18	-21.43	25.75	40.00	-14.25	Peak
88.0000	41.27	-21.45	19.82	40.00	-20.18	Peak
98.1100	60.93	-19.50	41.43	67.96	-26.53	Peak
108.0000	44.11	-17.62	26.49	43.52	-17.03	Peak
108.9560	46.98	-17.45	29.53	43.52	-13.99	Peak

Test Mode:	FM Mid CH	Temp/Hum	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Average	Test Voltage:	120Vac / 60Hz



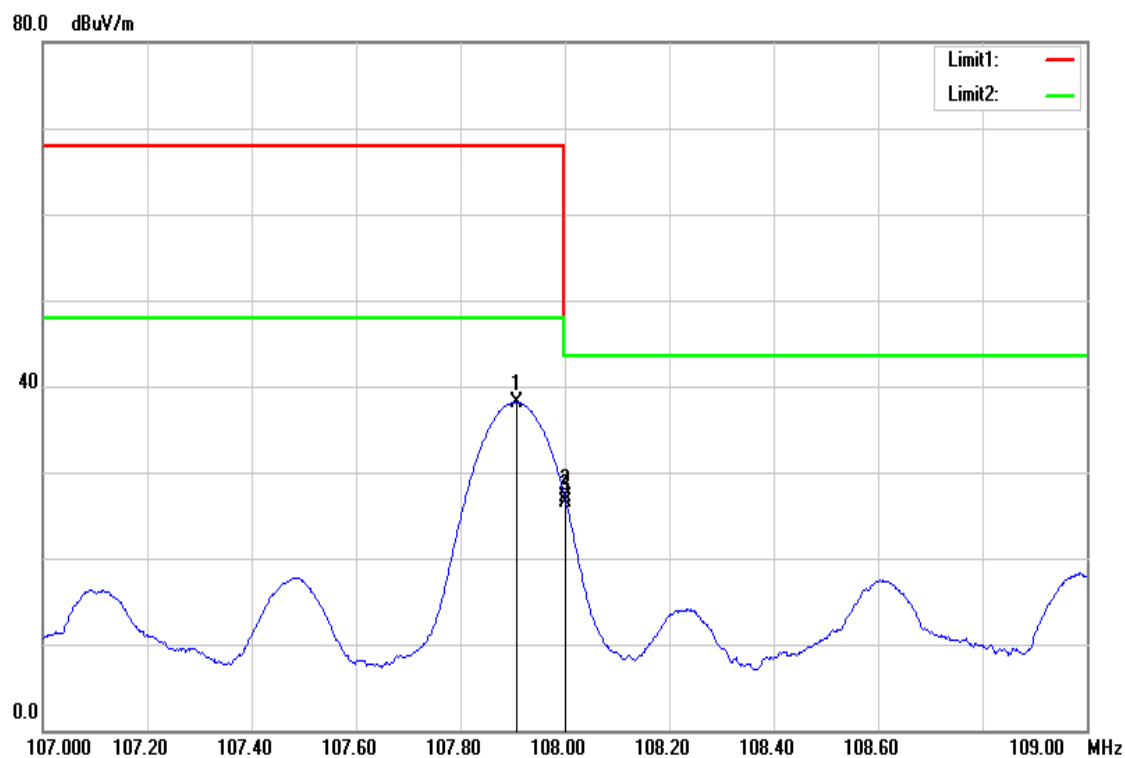
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
87.0000	41.13	-21.43	19.70	40.00	-20.30	AVG
88.0000	32.10	-21.45	10.65	40.00	-29.35	AVG
98.1100	60.29	-19.50	40.79	47.96	-7.17	AVG
108.0000	32.56	-17.62	14.94	43.52	-28.58	AVG
108.9780	40.91	-17.45	23.46	43.52	-20.06	AVG

Test Mode:	FM High CH	Temp/Hum	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Peak	Test Voltage:	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
107.9080	57.48	-17.63	39.85	67.96	-28.11	Peak
108.0000	48.02	-17.62	30.40	43.52	-13.12	Peak
108.0020	47.27	-17.62	29.65	43.52	-13.87	Peak

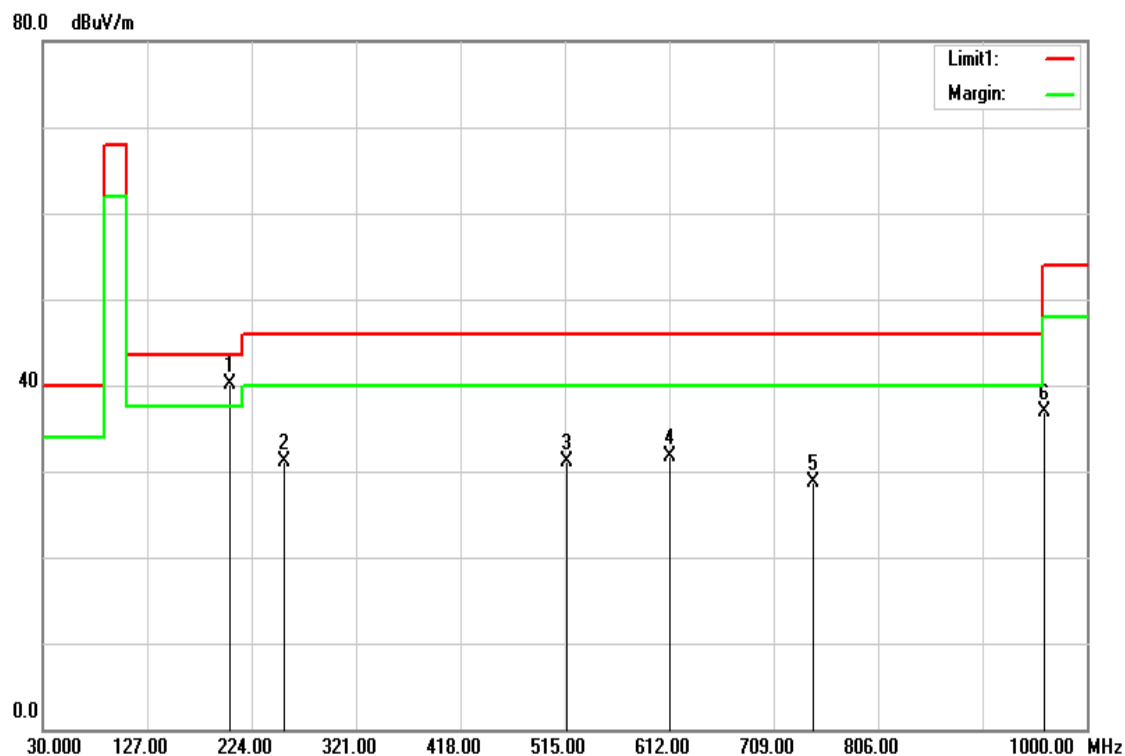
Test Mode:	FM High CH	Temp/Hum	27(°C) / 53%RH
Test Item	Band Edge	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Average	Test Voltage:	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
107.9080	55.76	-17.63	38.13	47.96	-9.83	AVG
108.0000	44.72	-17.62	27.10	43.52	-16.42	AVG
108.0020	44.22	-17.62	26.60	43.52	-16.92	AVG

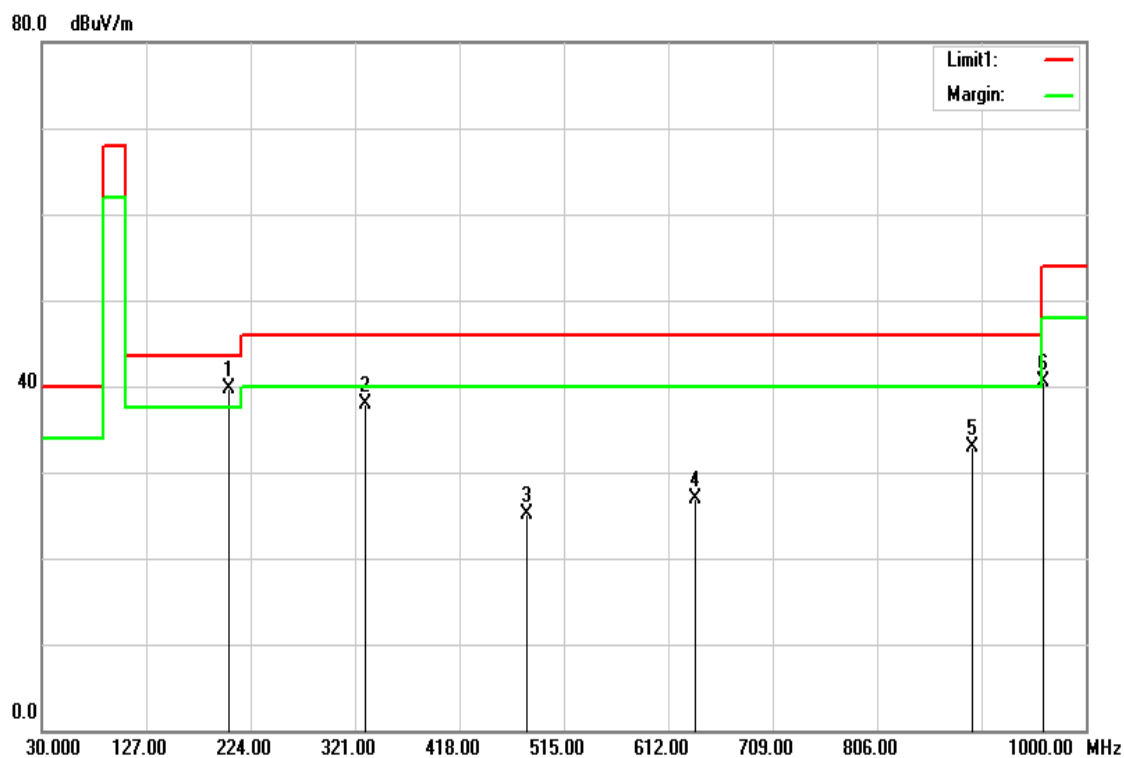
Below 1G Test Data

Test Mode:	FM Low CH	Temp/Hum	27(°C) / 53%RH
Test Item	30MHz-1GHz	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Peak and Qusi-peak	Test Voltage:	120Vac / 60Hz



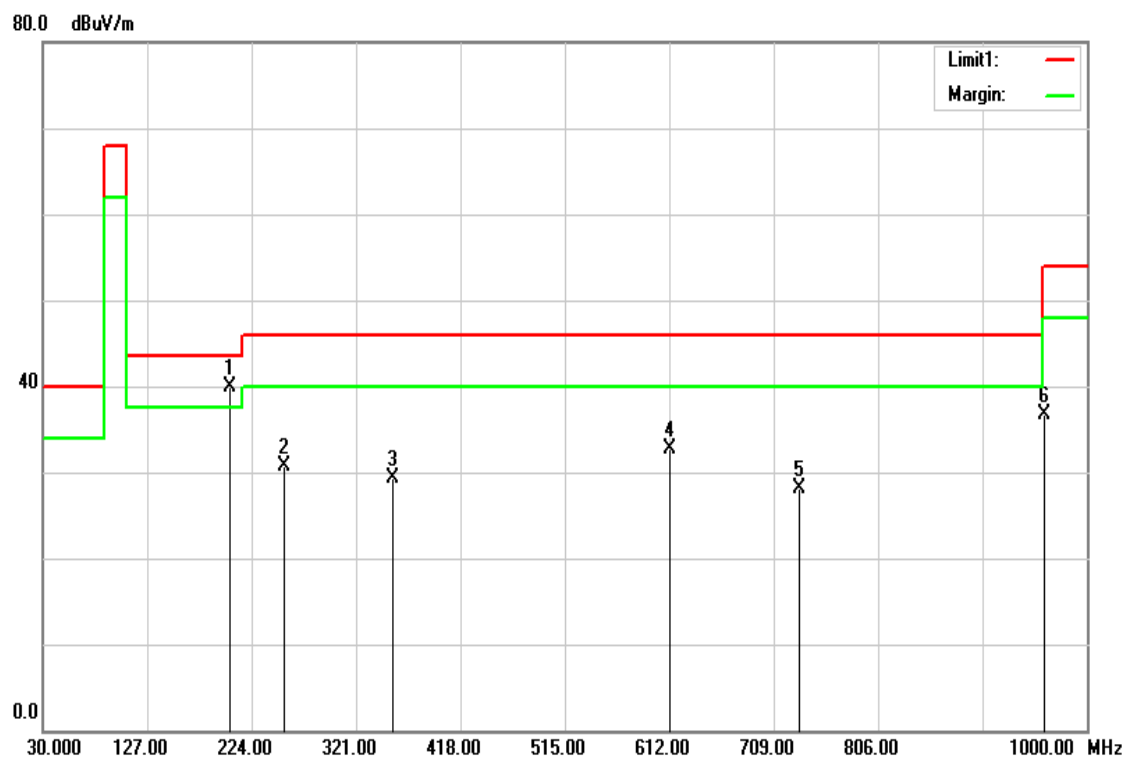
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
203.6300	55.87	-15.81	40.06	43.52	-3.46	QP
254.0700	47.15	-15.98	31.17	46.00	-14.83	Peak
516.9400	40.19	-8.99	31.20	46.00	-14.80	Peak
612.0000	39.08	-7.47	31.61	46.00	-14.39	Peak
745.8600	33.64	-5.02	28.62	46.00	-17.38	Peak
960.2300	39.10	-2.23	36.87	54.00	-17.13	Peak

Test Mode:	FM Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	30MHz-1GHz	Test Date	Jan 17, 2017
Polarize	Horizontal	Test Engineer	Ed Chiang
Detector	Peak and Qusi-peak	Test Voltage:	120Vac / 60Hz



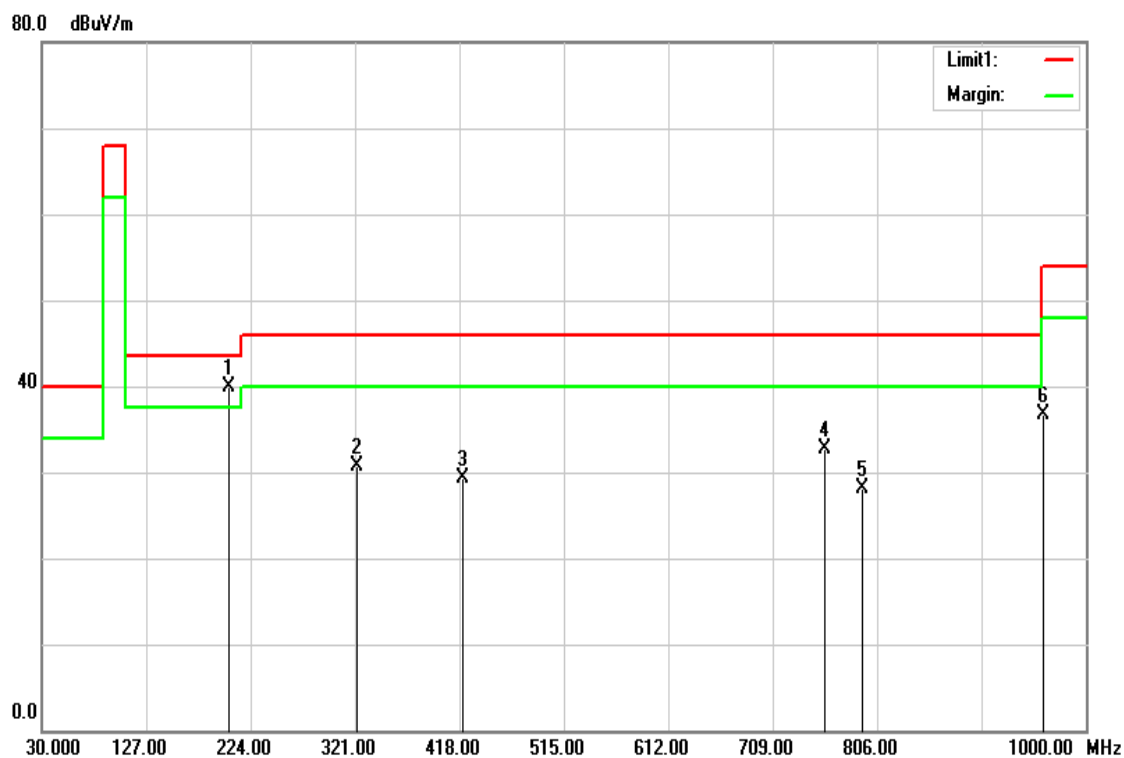
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
203.6300	55.54	-15.81	39.73	43.52	-3.79	Peak
330.7000	51.33	-13.41	37.92	46.00	-8.08	Peak
480.0800	34.74	-9.62	25.12	46.00	-20.88	Peak
637.2200	33.70	-6.87	26.83	46.00	-19.17	Peak
894.2700	36.09	-3.26	32.83	46.00	-13.17	Peak
960.2300	42.83	-2.23	40.60	54.00	-13.40	Peak

Test Mode:	FM Mid CH	Temp/Hum	27(°C) / 53%RH
Test Item	30MHz-1GHz	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Peak and Qusi-peak	Test Voltage:	120Vac / 60Hz



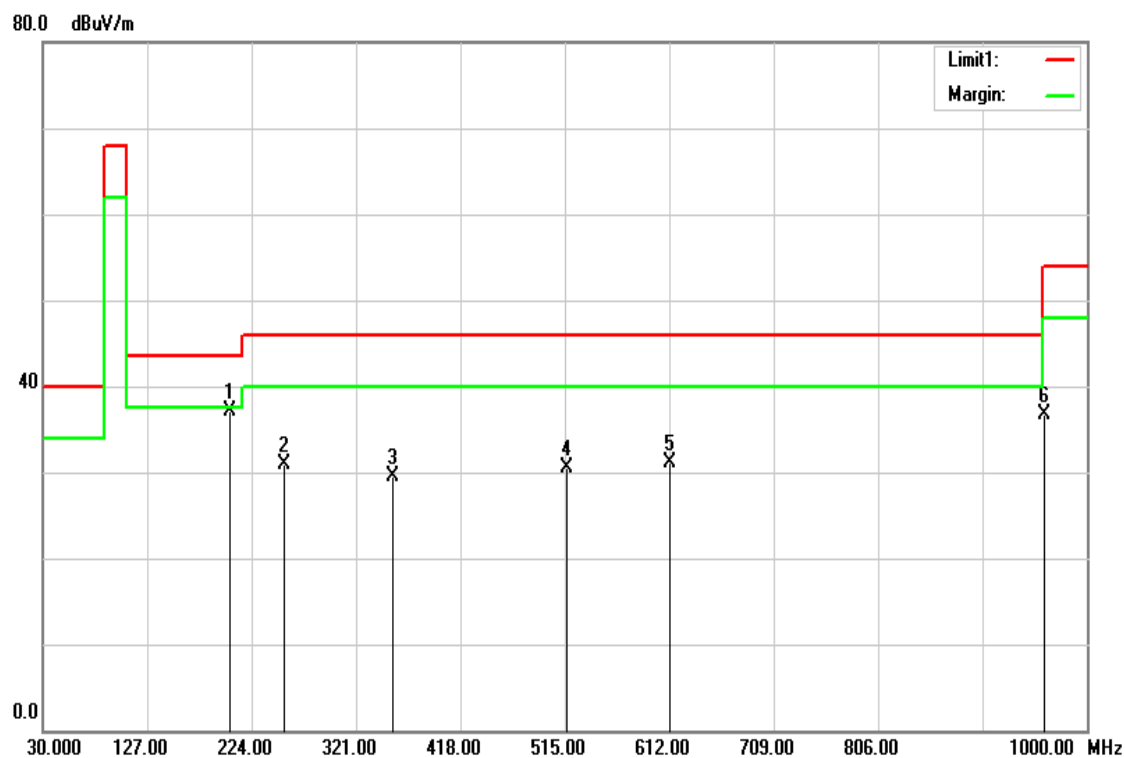
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
203.6300	55.72	-15.81	39.91	43.52	-3.61	QP
254.0700	46.77	-15.98	30.79	46.00	-15.21	Peak
354.9500	42.03	-12.77	29.26	46.00	-16.74	Peak
612.0000	40.13	-7.47	32.66	46.00	-13.34	Peak
733.2500	33.43	-5.31	28.12	46.00	-17.88	Peak
960.2300	39.02	-2.23	36.79	54.00	-17.21	Peak

Test Mode:	FM Low CH	Temp/Hum	27(°C)/ 53%RH
Test Item	30MHz-1GHz	Test Date	Jan 17, 2017
Polarize	Horizontal	Test Engineer	Ed Chiang
Detector	Peak and Qusi-peak	Test Voltage:	120Vac / 60Hz



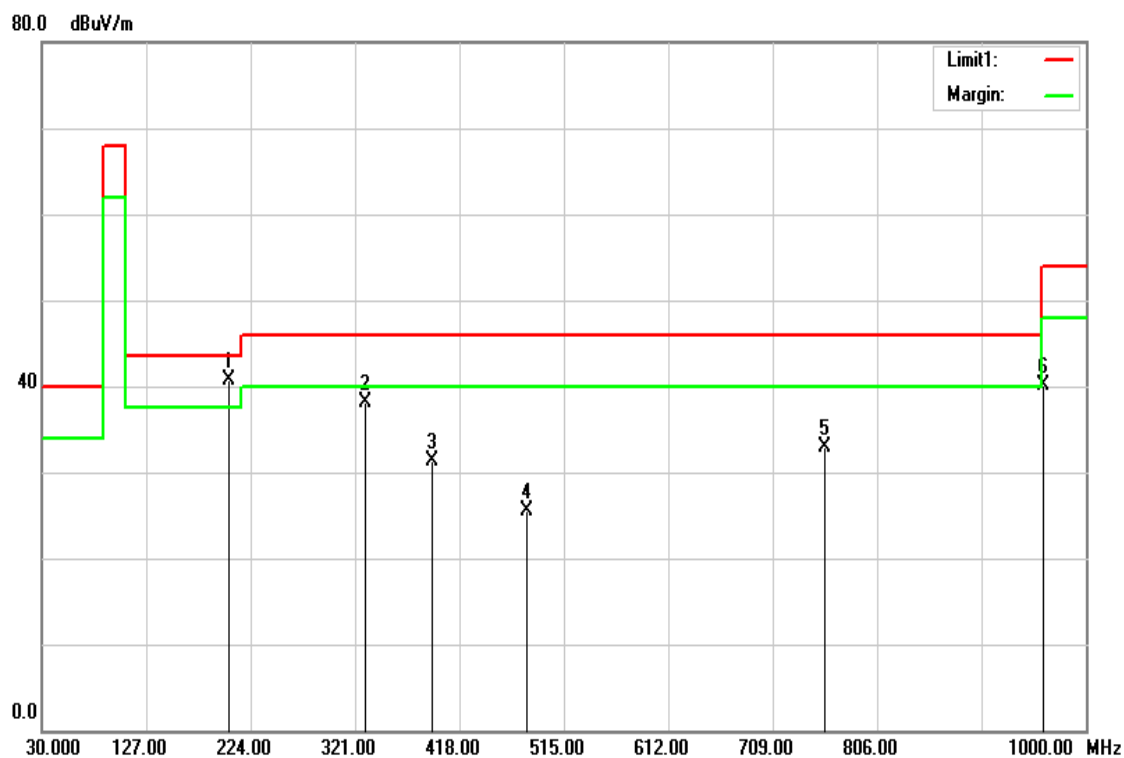
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
203.6300	55.72	-15.81	39.91	43.52	-3.61	Peak
322.9400	44.41	-13.62	30.79	46.00	-15.21	Peak
420.9100	40.33	-11.07	29.26	46.00	-16.74	Peak
757.5000	37.52	-4.86	32.66	46.00	-13.34	Peak
792.4200	32.68	-4.56	28.12	46.00	-17.88	Peak
960.2300	39.02	-2.23	36.79	54.00	-17.21	Peak

Test Mode:	FM High CH	Temp/Hum	27(°C) / 53%RH
Test Item	30MHz-1GHz	Test Date	Jan 17, 2017
Polarize	Vertical	Test Engineer	Ed Chiang
Detector	Peak and Qusi-peak	Test Voltage:	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
203.6300	52.89	-15.81	37.08	43.52	-6.44	Peak
254.0700	46.91	-15.98	30.93	46.00	-15.07	Peak
354.9500	42.36	-12.77	29.59	46.00	-16.41	Peak
516.9400	39.45	-8.99	30.46	46.00	-15.54	Peak
612.0000	38.56	-7.47	31.09	46.00	-14.91	Peak
960.2300	38.91	-2.23	36.68	54.00	-17.32	Peak

Test Mode:	FM High CH	Temp/Hum	27(°C)/ 53%RH
Test Item	30MHz-1GHz	Test Date	Jan 17, 2017
Polarize	Horizontal	Test Engineer	Ed Chiang
Detector	Peak and Qusi-peak	Test Voltage:	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
203.6300	56.57	-15.81	40.76	43.52	-2.76	QP
330.7000	51.45	-13.41	38.04	46.00	-7.96	Peak
392.7800	43.27	-11.87	31.40	46.00	-14.60	Peak
480.0800	35.14	-9.62	25.52	46.00	-20.48	Peak
757.5000	37.85	-4.86	32.99	46.00	-13.01	Peak
960.2300	42.42	-2.23	40.19	54.00	-13.81	Peak